

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/905,657

DATE: 07/27/2001 TIME: 11:16:17

Input Set : A:\engl Sequenzprotokoll Le A 34 730.txt

Output Set: N:\CRF3\07272001\1905657.raw

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3 <110> APPLICANT: BAYER AG
      5 <120> TITLE OF INVENTION: Use of VLCFAE for identifying herbicidally
              active compounds
      8 <130> FILE REFERENCE: Le A 34 730
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/905,657
C--> 11 <141> CURRENT FILING DATE: 2001-07-13
     13 <160> NUMBER OF SEQ ID NOS: 2
    15 <170> SOFTWARE: PatentIn Ver. 2.1
    17 <210> SEQ ID NO: 1
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    24 <222> LOCATION: (176)..(583)
    26 <220> FEATURE:
    27 <221> NAME/KEY: CDS
    28 <222> LOCATION: (1119)..(1745)
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    32 <222> LOCATION: (1821)..(2438)
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    37 tataactaca catattcata tttacatttt ttgccaacac aactccttat aagatataca 120
    39 cttcatcaac ctatagatct cactcacata atcaacctac aaaacaaaaa caaga atg
                                                                    Met.
    41
    43 ggt aga tcc aac gag caa gat ctg ctc tct acc gag atc gtt aat cgt
                                                                          226
    44 Gly Arg Ser Asn Glu Gln Asp Leu Leu Ser Thr Glu Ile Val Asn Arg
                                        10
    47 ggg atc gaa cca tcc ggt cct aac gcc ggc tca cca acg ttc tcg gtt
                                                                         274
   48 Gly Ile Glu Pro Ser Gly Pro Asn Ala Gly Ser Pro Thr Phe Ser Val
    49
                20
                                    25
   51 agg gtc agg aga cgt ttg cct gat ttt ctt cag tcg gtg aac ttg aag
   52 Arg Val Arg Arg Leu Pro Asp Phe Leu Gln Ser Val Asn Leu Lys
                                40
   55 tac gtg aaa ctt ggt tac cac tac ctc ata aac cat gcg gtt tat ttg
                                                                         370
   56 Tyr Val Lys Leu Gly Tyr His Tyr Leu Ile Asn His Ala Val Tyr Leu
                           55
   59 gcg acc ata ccg gtt ctt gtg ctg gtt ttt agt gct gag gtt ggg agt
                                                                         418
   60 Ala Thr Ile Pro Val Leu Val Leu Val Phe Ser Ala Glu Val Gly Ser
                       70
   63 tta agc aga gaa gag att tgg aag aag ctt tgg gac tat gat ctt gca
                                                                         466
   64 Leu Ser Arg Glu Glu Ile Trp Lys Lys Leu Trp Asp Tyr Asp Leu Ala
                                       90
   67 act gtt atc gga ttc ttc ggt gtc ttt gtt tta acc gct tgt gtc tac
   68 Thr Val Ile Gly Phe Phe Gly Val Phe Val Leu Thr Ala Cys Val Tyr
```





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69		100					105					110				5.60
71 ttc	_		_		-		-				_		-			562
72 Phe		Ser .	Arg	Pro /	_		Val	Tyr	Leu	Ile	_	Phe	Ala	Cys	Tyr	
73	115					120					125					
75 aag	CCC	tcc	gat	gaa	cac	aag	gtac	gtcc	ca a	cttt	tcca	t ag	agga	aata		613
76 Lys	Pro	Ser .	Asp	Glu :	His	Lys										
77 130					135											
79 gtc	taaat	ta c	tttt	accc	a aa	aaaa	aaaa	aaa	aaaa	aaa	atct	aaat	ta a	gtat	actta	673
81 aga	aatta	ta a	ttag	attt	g tc	aaaa	aata	ata	atta	taa	ttag	atgg	at t	agtt	gttta	733
83 tag																
85 tca	ggtat	at a	taaa	aagt	a at	tatt	ttgc	aaa	acct	tta	gata	ttgg	tt a	cgtt	tgatt	853
87 taa				-			_				_					
89 gaa	_			_	_									-		
91 aaa																
93 aaa				-					_	-			-			
95 ctc		-					_									1145
96		J = , = .	55		,							Phe				
97										140		+			145	
99 gcg	aσa	aaa :	tca	aaa :	aaσ	ttc	σac	αаа			ctc	aat ·	ttc.			1193
100 Al	_				-		_	-						_	-	
101	1119	מענ	UCI	150	בעב	1110	тор	Olu	155		DCu	011	1 110	160	2,5	
103 ag	a ato	++=	caa		tca	aac	ata	aac		αaα	aca	tac	atc		aσa	1241
103 ag 104 Ar	-			-					-				_		-	1241
104 AI	9 116	ьеu	165	Ala	261	GIY	116	170	_	GIU	. 1111	тут	175	FIO	rra	
103 107 tc	a ata	+ a+		+ 02	<i>~</i> ~ ~	220	2+2			2+4		~~~		cat	~~ a	1289
107 tc					_				_	_		_				1209
100 56	т тте	180	ser	ser	Gra	ASII	185		1111	Mec	- цуз	190	GIY	ALY	Giu	
			202	~+ ~	2+0	+++			ata	~~~	~~~		++0	~~~	224	1337
111 ga	-							_		_	-					1337
112 Gl	195	ser	1111	Val	тте	200	СТУ	Ата	ьеu	ASP	205		Pile	Gru	цуѕ	
113		~+ ^		aat	222		~++	~~+	at a	a++			220	+ ~+	200	1385
115 ac	_	_				_	-		-			-				1303
116 Th	_	val	ьуѕ	PIO	_	ASP	Val	СТА	vai			val	ASII	Cys		
117 21					215				~~~	220		-+-		+	225	1422
119 at			_		-	-	_		-							1433
120 II	e Pne	Asn	Pro		Pro	Ser	Leu	ser		мет	vaı	iie	Asn		Tyr	*
121				230		- 4- 4			235					240	4 4.	1401
123 aa	-	_					_				-					1481
124 Ly	s Met	Arg	_	Asn	тте	ьeu	Ser	_	Asn	Leu	GLY	GIĄ		GTĀ	Cys	
125			245					250					255			1500
127 tc																1529
128 Se:	r Ala		Ile	Ile	Ala	Ile	_	Leu	Ala	Arg	Asp		Leu	GIn	Ser	
129		260					265					270				
131 aa																1577
132 Ası		Asn	Ser	Tyr	Ala		Val	Val	Ser	Thr		Met	Val	Gly	Tyr	
133	275					280					285					
135 aa																1625
136 Ası		Tyr	Val	Gly		Asp	Lys	Ser	Met		Ile	Pro	Asn	Cys		
137 29					295					300					305	
139 tt	t agg	atg	ggt	tgt	tct	gcc	gtt	atg	ctc	tct	aac	cgt	cgt	cgt	gac	1673





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140) Ph	e Ar	g Me	t Gly	у Су	s Sei	r Ala	a Vai	l Met	L Le	u Se	r Ası	n Ar	g Ar	j Arg	J Asp	
141	-				31)				31	5				320)	
144	Ph	L Cyt	J Cal	. gci	a Lar	g tao	cgi	cto	c gag	J ca	c at	t gt	c cga	a act	cat	aag	1721
145	, 1110	- nr	9 111.	325	а шу: 5	2 T A 1	. AIG	, те	1 GIU 33(1 H1:	S II	e va.	L Ar			Lys	
		. act	τ σας			- ag	1 ++0	n a oro			tast	+++	+-4	335) . 4 4	rtttta	
148	Ala	a Ala	a Ast	Asr	Arc	j Sei	Phe	. ay	y LLI	-Cat	LCal	بدد	ggcai	cta a	itte	rttta	1775
149			340			,		345									
151	caa	itcto	cttg	acco	racct	ag t	aact			rtata	agtti	t tta	agg a	aat o	rtα t	ac ca	g 1832
172													ç	Ser V	7al T	vr Gli	9 1032 n
154	gaa	a gaa	ı gat	gaa	caa	ı gga	ttc	aag	ggg	rttg	y aag	g ata	agt	- ада	gac	tta	1880 .
100	GIU	i Glu	ı Asp	Glu	Glr	ı Gly	Phe	Lys	Gly	Lei	ı Lys	s Ile	Ser	Arg	Āsp	Leu	
T20	350	,				355	i				360)				365	
158	atg	gaa	gtt	gga	. ggt	gaa	gct	cto	aag	aca	aac	ato	act	acc	tta	ggt	1928
160	мет	. GIU	vaı	. GIY	GIY	Glu	Ala	Leu	Lys			ılle	Thr	Thr	Leu	Gly	
	aat	a++	a+ a		370		4			375					380		
163	Dro	. CLL	. y.c.	Tou	Dro	Dho	CCC	gag	cag	ctt	cto	ttc	ttt	get	gct	ttg	1976
164	110	пец	. val	385	PIC	Phe	ser	Glu			Leu	Phe	Phe			Leu	
	ctc	cac	саа			tca	cat	aat	390		2.00			395		tcc	
167	Leu	Arg	Ara	Thr	Phe	Ser	Pro	Δla	Ala	Tare	Thr	CON	aca	acc	act	tcc	2024
168		,	400			DCI	110	405	пта	цуз	1111	ser	410		Thr	ser	
170	ttc	tct	act	tcc	qcc	acc	gca		acc	aat	ααа	ato	410	tat	+ 00	t at	2072
171	Phe	Ser	Thr	Ser	Ála	Thr	Ala	Lys	Thr	Asn	Glv	Tle	Lvs	Ser	Ser	Sor	2072
1/2		415					420					425					
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T / 2	ser	Asp	Leu	Ser	Lys	Pro	Tyr	Ile	Pro	Asp	Tyr	Lys	Leu	Ala	Phe	Glu	
Τ/6	430					435					440	•				445	
178	cat	ttt	tgc	ttc	cac	gcg	gca	agc	aaa	gta	gtg	ctt	gaa	gag	ctt	caa	2168
1/9	His	Phe	Cys	Phe	His	Ala	Ala	Ser	Lys	Val	Val	Leu	Glu	Glu	Leu	Gln	
180					450					455					460		
183	Lve	Acn	CLa	ggc	ttg	agt	gaa	gag	aat.	atg	gag	gct	tct	agg	atg	aca	2216
184	шуз	ASII	nén	465	ьeu	ser	GIU	Glu	Asn	Met	Glu	Ala	Ser		Met	Thr	
	ctt	cac	agg		αα=	220	3.at	+ -+	470					475			
187	Leu	His	Ara	Phe	Glv	Agn	Thr	Cor	agc Ser	agt	gga	atc	tgg	tat	gag	ttg	2264
188			480	1110	O L Y	ASII	1111	485	261	ser	СТА	тте	1rp	Tyr	GLu	Leu	
190	gct	tac	atq	gag	acc	aaσ	σаа		gtt	cat	ana	aac	490	200	~++	+~~	2212
191	Ala	Tyr	Met	Ğlu	Ala	Lys	Glu	Ser	Val	Ara	Ara	Glv	Asn	Ara	Val	Trn	2312
192		495				•	500			9		505	шър	arg	Val	пр	
194	cag	atc	gct	ttc	ggt	tct	ggt	ttt	aag	tqt	aac	agt	ata	ata	taa	aaσ	2360
193	GTII	Ile	Ala	Phe	Gly	Ser	Gly	Phe	Lys	Cys	Asn	Ser	Val	Val	Trp	Lvs	
190	OTO					515					520					525	
198	gca	atg	agg	aag	gtg	aag	aag	cca	acc	agg	aac	aat	cct	tgg	gtg	gat	2408
TOO.	ата	Met	Arg	Lys	vaı	Lys	Lys	Pro	Thr	Arg	Asn	Asn	Pro	Trp	Val	Asp	
200					530					535					540		
202	Cva	alC Tla	daC	cgt 22-	tac	cct	gtg	cct	ctc	taa	atta	tcat	tc t	tcta	aatt	a	2458
203 (Суб	тте	ASII	Arg 545	туг	Pro	val	Pro									
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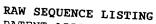




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289 340 345 Ser Val Tyr Gln Glu Glu Asp
291 Glu Gln Gly Phe Lys Gly Leu Lys Ile Ser Arg Asp Leu Met Glu Val
294 Gly Gly Glu Ala Leu Lys Thr Asn Ile Thr Thr Leu Gly Pro Leu Val
295 370 375 380 375 380
297 Leu Pro Phe Ser Glu Gln Leu Leu Phe Phe Ala Ala Leu Leu Arg Arg
300 Thr Phe Ser Pro Ala Ala Lys Thr Ser Thr Thr Thr Ser Phe Ser Thr 400 400
301 405 410 410 415
304 A20 420 415
306 Ser Lys Pro Tyr Ile Pro Asp Tyr Lys Leu Ala Phe Glu His Phe Cys
307 435 440 Ala Phe Glu His Phe Cys
309 Phe His Ala Ala Ser Lys Val Val Leu Glu Glu Leu Gln Lys Asn Leu 445 310 450 455
312 Gly Leu Ser Glu Glu Asn Met Glu Ala Ser Arg Met Thr Leu His Arg
313 465 470 475 475
315 Phe Gly Asn Thr Ser Ser Ser Gly Ile Trp Tyr Glu Leu Ala Tyr Met
318 Glu Ala Lys Glu Ser Val Arg Arg Gly Asp Arg Val Trp Gln Ile Ala
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321 Phe Gly Ser Gly Phe Lys Cys Asn Ser Val Val Trp Lys Ala Met Arg
324 Lys Val Lys Lys Pro Thr Arg Asn Asn Pro Trp Val Asp Cys Ile Asn 525 530 535 536
327 Arg Tyr Pro Val Pro Leu 535 540
328 545 550





VERIFICATION SUMMARY

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L:10~M:270~C: Current Application Number differs, Replaced Application Number L:11~M:271~C: Current Filing Date differs, Replaced Current Filing Date